

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	15	perceptron adj tree	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/05 17:00
L2	0	(perceptron adj tree) near image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/05 15:36
L3	14	(perceptron adj tree) and image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/05 15:36
L4	14	(perceptron adj tree) and image and classifi\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/05 15:37
L5	11	(perceptron adj tree) and image and classifi\$3 and supervised	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/05 15:37

Adaptive Fuzzy Neural Trees (1995) (Make Corrections) (1 citation)

Alois P. Heinz

View or download:

informatik.unifreiburg.de/~heinz95fin.ps.ZCached: [PS.gz](#) [PS](#) [PDF](#) [Image](#) [Update](#) [Help](#)**CiteSeer** [Home/Search](#) [Bookmark](#) [Context](#) [Related](#)From: informatik.unifreiburg.de/~heinz95fin.ps.Z (more)
(Enter author homepages)[\(Enter summary\)](#)

Rate this article: 1 2 3 4 5 (best)

[Comment on this article](#)

Abstract: We propose Adaptive Fuzzy Neural Trees as an appropriate tool for intelligent data analysis, comprehension, and prediction. Instead of using a single technique Adaptive Fuzzy Neural Trees as a mixture of paradigms combine the main advantages of neural networks, decision trees, and fuzzy logic. Like neural networks they are able to model smooth functions and can be adapted incrementally. Like decision trees their topology and initial parameters can easily be derived from a training data set by... [\(Update\)](#)

Context of citations to this paper: [More](#)

...in general. An interesting advantage of this restriction is that the resulting network can be interpreted as a fuzzy logic expert system [9]. If all decision radii are restricted to be zero the network can be regarded as an oblique decision tree. The fastest convergence however...

Cited by: [More](#)On a Class of Constructible Neural Networks - Heinz (1995) [\(Correct\)](#)Active bibliography (related documents): [More](#) [All](#)0.7: Ntree: Tools for Neural Trees - Heinz, Hense [\(Correct\)](#)0.2: Pipelined Neural Tree Learning by Error Forward-Propagation - Heinz (1995) [\(Correct\)](#)0.0: Advanced Supervised Learning in Multi-layer Perceptrons - From.. - Riedmiller (1994) [\(Correct\)](#)Similar documents based on text: [More](#) [All](#)0.1: Tree-Structured Neural Networks: Efficient Evaluation of.. - Heinz (2000) [\(Correct\)](#)0.1: A Tree-Structured Neural Network for Real-Time Adaptive Control - Heinz (1996) [\(Correct\)](#)0.1: Efficient Top-Down Jacobian Evaluation of Tree-Structured Neural.. - Heinz (1998) [\(Correct\)](#)BibTeX entry: [\(Update\)](#)

A. P. Heinz. Adaptive fuzzy neural trees. In G. E. Lasker and X. Liu, editors, Advances in Intelligent Data Analysis, Proceedings of the IDA-95 Symposium, volume I, pages 70--74, Baden-Baden, Germany, Aug. 1995. The International Institute for Advanced Studies in Systems Research and Cybernetics. (ISBN 0-921836-29-5). <http://citeseer.ist.psu.edu/heinz95adaptive.html> [More](#)

```
@misc{ heinz95adaptive,
  author = "A. Heinz",
  title = "Adaptive fuzzy neural trees",
  text = "A. P. Heinz. Adaptive fuzzy neural trees. In G. E. Lasker and X. Liu, editors,
    Advances in Intelligent Data Analysis, Proceedings of the IDA-95 Symposium,
    volume I, pages 70--74, Baden-Baden, Germany, Aug. 1995. The International
    Institute for Advanced Studies in Systems Research and Cybernetics. (ISBN
    0-921836-29-5).",
  year = "1995",
  url = "citeseer.ist.psu.edu/heinz95adaptive.html" }
```

Citations (may not include all citations):

- 1468 Learning internal representations by error propagation (context) - Rumelhart, Hinton et al. - 1986
- 1170 Classification and Regression Trees (context) - Breiman, Friedman et al. - 1984
- 132 An empirical study of learning speed in back-propagation net.. - Fahlman - 1988
- 118 An Introduction to Fuzzy Control (context) - Driankov, Hellendoorn et al. - 1993
- 74 Learning to tell two spirals apart (context) - Lang, Witbrock - 1988
- 4 Fast bounded smooth regression with lazy neural trees - Heinz - 1994
- 2 Learning and generalization in adaptive fuzzy logic networks - Heinz - 1994
- 1 Albert-Ludwigs-Universitat (context) - Heinz, Hense et al. - 1995

Documents on the same site (<http://www.informatik.uni-freiburg.de/~heinz/>): [Mor](#)
[On a Class of Constructible Neural Networks - Heinz \(1995\)](#) ([Correct](#))
[Learning and Generalization in Adaptive Fuzzy Logic Networks - Heinz \(1994\)](#) ([Correct](#))
[Pipelined Neural Tree Learning by Error Forward-Propagation - Heinz \(1995\)](#) ([Correct](#))

[Online articles have much greater impact](#) [More about CiteSeer.IST](#) [Add search form to your site](#) [Submit documents](#)
[Feedback](#)

CiteSeer.IST - Copyright [Penn State](#) and [NEC](#)

Set	Items	Description
S1	6381835	OBJECT? OR FILE? OR BLOB OR IMAGE? OR GRAPHIC? OR ITEM? OR SEMICONDUCTOR?
S2	3432370	CLASSIF? OR CATALOG? OR ARRANGE? OR CLASS OR INDEX?
S3	993849	BINARY OR BTREE OR TREE? ?
S4	23405	S1 AND S2 AND S3
S5	471088	NEURAL() (NET OR NETS OR NETWORK OR SYSTEM) OR (COMPUTER? OR MACHINE) () (LEARN? OR TRAIN?) OR ANS
S6	745	S1(3N)S2 AND S3 AND S5
S7	2024	S4 AND S5
S8	1078	S7 AND (RULE? OR PREFERENC? OR CHARACTERISTIC? OR PARAMETER? OR DECISION?)
S9	720	S8 NOT S6
S10	10738	(BINARY OR BTREE?) (3N) (CLASSIF? OR DECISION?)
S11	47	S1(3N)S2 AND S5 AND S10 AND S8
S12	52	S8 AND (FUZZY OR SOFT) (N) (SYSTEM? OR LOGIC? OR COMPUTING?)
S13	98	S11 OR S12
S14	75	RD (unique items)
S15	58	S14 NOT PY>2001
S16	58	S15 NOT PD>20010416
S17	21	S10 AND S16
File	8: Ei Compendex(R) 1970-2005/Dec W4	(c) 2005 Elsevier Eng. Info. Inc.
File	35: Dissertation Abs Online 1861-2004/Dec	(c) 2004 ProQuest Info&Learning
File	65: Inside Conferences 1993-2004/Dec W4	(c) 2004 BLDSC all rts. reserv.
File	2: INSPEC 1969-2004/Dec W2	(c) 2004 Institution of Electrical Engineers
File	94: JICST-EPlus 1985-2004/Nov W4	(c) 2004 Japan Science and Tech Corp(JST)
File	111: TGG Natl. Newspaper Index(SM) 1979-2005/Dec 30	(c) 2005 The Gale Group
File	6: NTIS 1964-2004/Dec W4	(c) 2004 NTIS, Intl Cpyrght All Rights Res
File	144: Pascal 1973-2004/Dec W1	(c) 2004 INIST/CNRS
File	434: SciSearch(R) Cited Ref Sci 1974-1989/Dec	(c) 1998 Inst for Sci Info
File	34: SciSearch(R) Cited Ref Sci 1990-2004/Dec W4	(c) 2004 Inst for Sci Info
File	99: Wilson Appl. Sci & Tech Abs 1983-2004/Nov	(c) 2004 The HW Wilson Co.
File	95: TEME-Technology & Management 1989-2004/Jun W1	(c) 2004 FIZ TECHNIK